2SC2480

Silicon NPN epitaxial planar type

For high-frequency amplification/oscillation/mixing

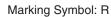
Features

- High transition frequency f_T
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing

Unit: mm 0.40+0.10 0.16+0.10 2 $1.50_{-0.05}^{+0.25}$ 2.8+0.2 2|j **⊢**†1 (0.65) (0.95) (0.95) 1.9±0.1 2.90+0.20 10 1.1^{+0.2} 1.1 5 5 1 1 1: Base 0 to 0.1 2: Emitter 3: Collector JEITA: SC-59A Mini3-G1 Package

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	30	V
Collector-emitter voltage (Base open)	V _{CEO}	20	V
Emitter-base voltage (Collector open)	V _{EBO}	3	V
Collector current	I _C	50	mA
Collector power dissipation	P _C	150	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{C} = 100 \ \mu A, \ I_{E} = 0$	30			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 10 \ \mu A, \ I_C = 0$	3			V
Base-emitter voltage	V _{BE}	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}$		720		mV
Forward current transfer ratio	h _{FE}	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}$	25		250	
Transition frequency *	f _T	$V_{CB} = 10 \text{ V}, I_E = -15 \text{ mA}, f = 200 \text{ MHz}$	800	1 300	1 600	MHz
Reverse transfer capacitance (Common base)	C _{rb}	$V_{CE} = 6 V, I_C = 0, f = 1 MHz$		0.8		pF
Reverse transfer capacitance (Common emitter)	C _{re}	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.0	1.5	pF
Power gain	G _P	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$		20		dB

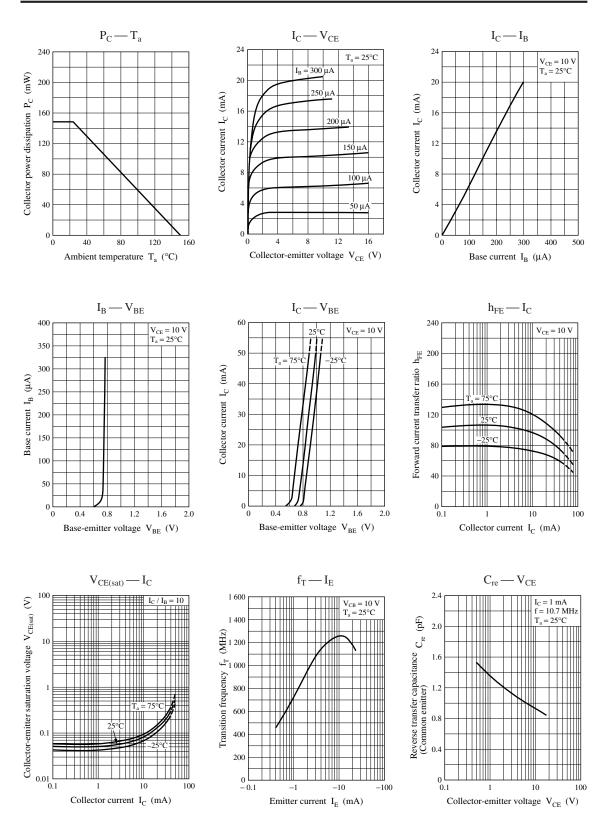
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

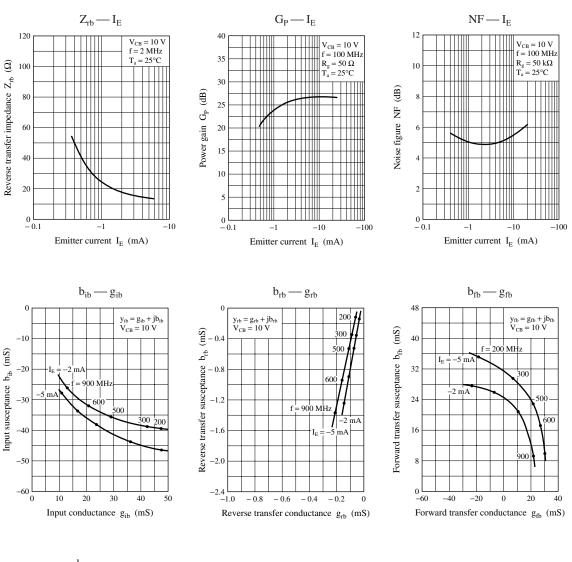
Rank	Т	S	No-rank
f_{T}	800 to 1 400	1000 to 1600	800 to 1 600
Marking symbol	RT	RS	R

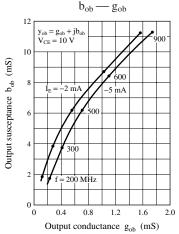
Product of no-rank is not classified and have no indication for rank.

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